

PE NUMBER: 0604762F

UNCLASSIFIED

PE TITLE: Common Low Observable Verification System (CLOVerS)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604762F Common Low Observable Verification System (CLOVerS)				PROJECT 4683		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4683 Common Low Observable Verification System	500	4,882	5,893	11,723	2,096	0	0	0	0	25,094
Quantity of RDT&E Articles	0	0	0	1	0	0	0	0	0	1

(U) A. Mission Description
Common Low Observable Verification System (CLOVerS) is intended as an easily deployable flightline system to evaluate surface anomalies on low observable (stealth) aircraft. It will allow maintenance personnel to determine if a repair is needed, or if the repair performed was successful in restoring the low observable characteristic of the aircraft. CLOVerS is intended for use with the B-2, F-117, F-22, as well as future aircraft such as the Joint Strike Fighter, and the Darkstar Unmanned Aerial Vehicle. Key capabilities required include the ability to detect, locate, and resolve small surface defects, reduced measurement time (compared to existing verification methods), operation under less restrictive security measures, and a small deployment footprint.

(U) FY 1998 (\$ in Thousands):

- (U) \$275 Awarded and Completed Risk Reduction Study Contract
- (U) \$225 Program Office Support
- (U) \$500 Total

(U) FY 1999 (\$ in Thousands):

- (U) \$3,992 Award Development Contract
- (U) \$500 Initiate Development Contract Award Fee
- (U) \$300 Program Office Support
- (U) \$90 Identified as a source for SBIR
- (U) \$4,882 Total

(U) FY 2000 (\$ in Thousands):

- (U) \$4,813 Continue Development Contract
- (U) \$722 Continue Development Contract Award Fee
- (U) \$358 Program Office Support
- (U) \$5,893 Total

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(U) FY 2001 (\$ in Thousands):

- (U) \$9,813 Continue Development Contract
- (U) \$438 Program Office Support
- (U) \$1,472 Continue Development Contract Award Fee
- (U) \$11,723 Total

(U) **B. Budget Activity Justification:**

(U) This program is in budget activity 5 - Engineering and Manufacturing Development, Research Category 6.4 because this program develops the Common Low Observable Verification System (CLOVerS).

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY1999 PB)	0	4,901	2,440	972	8,313
(U) Appropriated Value	0	4,901			
(U) Adjustments to Appropriated Value					
a. Congressional/General Reductions		-19			
b. SBIR					
c. Omnibus or Other Above Threshold Reprogram					
d. Below Threshold Reprogramming	500				
(U) Adjustments to Budget Years Since FY 1999 PB			3,453	10,751	
(U) Current Budget Submit/ FY 2000 PB	500	4,882	5,893	11,723	25,094

(U) Significant Program Changes:

FY98 Below Threshold Reprogramming increase for Risk Reduction Study and Program Office Support

FY00 and FY01 funding increased because of improved program cost estimates.

FY99 \$90 identified as a source for SBIR.

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<p>(U) D. <u>Other Program Funding Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="text-align: center;"><u>FY 1998</u></th> <th style="text-align: center;"><u>FY 1999</u></th> <th style="text-align: center;"><u>FY 2000</u></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>FY 2004</u></th> <th style="text-align: center;"><u>FY 2005</u></th> <th style="text-align: center;"><u>To Compl</u></th> <th style="text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity: Aircraft (A/C) Procurement/Common Support Equipment, Program Title: Common Low Observable Test Equipment</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">4,728</td> <td style="text-align: center;">4,869</td> <td style="text-align: center;">677</td> <td style="text-align: center;">222</td> <td style="text-align: center;">Cont</td> <td style="text-align: center;">Cont</td> </tr> </tbody> </table> <p>(U) E. <u>Acquisition Strategy:</u> All major contracts within this program element will be awarded using full and open competition. Engineering and Manufacturing Development (EMD) contract type will be Cost Plus Award Fee. Production contract will be Fixed Price Incentive for Low Rate Initial Production.</p>												<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>	(U) PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity: Aircraft (A/C) Procurement/Common Support Equipment, Program Title: Common Low Observable Test Equipment	0	0	0	0	4,728	4,869	677	222	Cont	Cont
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>																						
(U) PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity: Aircraft (A/C) Procurement/Common Support Equipment, Program Title: Common Low Observable Test Equipment	0	0	0	0	4,728	4,869	677	222	Cont	Cont																						
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(U) F. Schedule Profile

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(U) Risk Reduction Contract Award			*													
(U) Milestone I Decision					*											
(U) RFP Release					*											
(U) Milestone II Decision						X										
(U) Contract Award							X									
(U) Begin Hardware/Software Integration										X						
(U) DT&E																X
(U) OT&E - FY02																
(U) LRIP Production - FY02-03																
(U) System Delivery - FY02-03																

* = Completed event
X = Planned event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999				
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604762F Common Low Observable Verification System (CLOVerS)				PROJECT 4683		
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U) Risk Reduction Contract					275						
(U) CLOVerS Development Contract						3,992	4,813	9,813			
(U) CLOVerS Development Contract Award Fee					225	500	722	1,472			
(U) Program Office Support						300	358	438			
(U) Identified as a source for SBIR						90					
(U) Total					500	4,882	5,893	11,723			
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government Performing Activity Identified as a source for SBIR	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
							90				90
<u>Product Development Organizations</u>											
Contract not Awarded	CPAF/FPIF	Apr 99	TBD	23,003	0	0	4,492	5,535	11,285	1,691	23,003
<u>Support and Management Organizations</u>											
ASC/SMD, WPAFB OH	Various				0	500	300	358	438	405	2,001
<u>Test and Evaluation Organizations</u>											
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604762F Common Low Observable Verification System (CLOVerS)					PROJECT 4683	
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
Identified as a source for SBIR							90				90
					0	0	0	0	0	0	0
 (U) B. <u>Budget Acquisition History and Planning Information (\$in Thousands)</u>											
Government Furnished Property: Advanced Diagnostic Analysis Package (ADAP) and Radar Diagnostic Expert Equipment (RDES) software will be available to the contractor											
					Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
Identified as a source for SBIR							90				90
Subtotal Product Development					0	0	4,492	5,535	11,285	1,691	23,003
Subtotal Support and Management					0	500	300	358	438	405	2,001
Subtotal Test and Evaluation					0	0	0	0	0	0	0
Total Project					0	500	4,882	5,893	11,723	2,096	25,094

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